(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



10/506884

(43) International Publication Date 12 September 2003 (12.09.2003)

PCT

(10) International Publication Number WO 03/075213 A2

(51) International Patent Classification⁷:

- (21) International Application Number: PCT/GB02/05247
- (22) International Filing Date:

22 November 2002 (22.11.2002)

(25) Filing Language:

English

G06K 11/16,

(26) Publication Language:

English

(30) Priority Data:

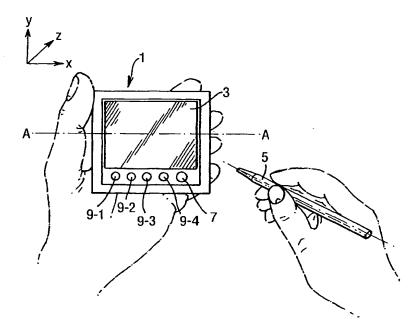
5 March 2002 (05.03.2002)	GB
24 April 2002 (24.04.2002)	GB
21 May 2002 (21.05.2002)	GB
31 May 2002 (31.05.2002)	GB
	24 April 2002 (24.04.2002) 21 May 2002 (21.05.2002)

(71) Applicant (for all designated States except US): SYNAPTICS (UK) LIMITED [GB/GB]; 7340 Cambridge Research Park, Ely Road, Waterbeach, Cambridgeshire CB5 9TB (GB).

- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ELY, David, Thomas, Eliot [GB/GB]; Synaptics (UK) Limited, 7340 Cambridge Research Park, Ely Road, Waterbeach, Cambridgeshire CB5 9TB (GB). MCCAUGHAN, Gareth, John [GB/GB]; Synaptics (UK) Limited, 7340 Cambridge Research Park, Ely Road, Waterbeach, Cambridgeshire CB5 9TB (GB). FOOTE, Geoffrey [GB/GB]; Synaptics (UK) Limited, 7340 Cambridge Research Park, Ely Road, Waterbeach, Cambridgeshire CB5 9TB (GB).
- (74) Agents: BERESFORD, Keith, Denis, Lewis et al.; Beresford & Co., 2-5 Warwick Court, High Holborn, London WC1R 5DH (GB).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: POSITION SENSOR



(57) Abstract: A low cost x-y digitising system is described for use in consumer electronic devices, such as portable digital assistants, mobile telephones, web browsers and the like. The digitiser includes a resonant stylus, an excitation winding for energising the resonant stylus and a set of sensor windings for sensing the signal generated by the stylus, from which the x-y position of the stylus is determined. A novel stylus design is described together with novel digitiser windings and novel excitation and processing circuitry.

BEST AVAILABLE COPY



3/075213 A2